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**WEEKLY REPORT No. 022**  
**December 14<sup>th</sup> to January 15<sup>th</sup> 2021**

**PROJECTS:**

**PO No. TPS 20-006 TERMOPUERTOSOLO 2 - BUENAVENTURA, TRANSMISSION LINE 115kV AND POWER ELECTRICAL SUBSTATION SE TABOR**

**PO No. TS1 20-009 TERMO SOLO 1 - PALMIRA, TRANSMISSION LINE 230kV AND POWER ELECTRICAL SUBSTATION SE SAN MARCOS**

**1. PURPOSE**

The purpose of this document is to report to Client Upper Management the current weekly progress related with the projects:

- TERMO SOLO 2 BUENAVENTURA, TRANSMISSION LINE 115kV AND POWER ELECTRICAL SUBSTATION SE TABOR.
- TERMO SOLO 1 PALMIRA, TRANSMISSION LINE 230kV AND POWER ELECTRICAL SUBSTATION SE SAN MARCOS.

**2. ABBREVIATIONS**

- TERMOPUERTO SOLO 2 – TS2
- POWER ELECTRICAL SUBSTATION TS2 – SE2
- POWER ELECTRICAL SUBSTATION TABOR 115kV, CELSIA EPSA TO RECEIVE TL2 – SE TABOR
- TERMO SOLO 1 – TS1
- POWER ELECTRICAL SUBSTATION TS1 – SE1
- POWER ELECTRICAL SUBSTATION SAN MARCOS 230kV, ISA TO RECEIVE TL1 – SE SAN MARCOS
- TRANSMISSION LINE 1 FROM TS1 TO SE SAN MARCOS – TL1
- TRANSMISSION LINE 2 FROM TS2 TO SE TABOR – TL2
- MOTA-ENGIL – ME
- SCOPE OF WORKS – SoW
- RFP PACKAGE No. CC03-AA-SOH-RFP-107-8003. POWER ELECTRICAL FOR 115 kV TRANSMISSION LINES AND ELECTRICAL SUBSTATIONS ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION, COMMISSIONING, AND START-UP (EPCIC/S) SERVICES – RFP EPC 115kV
- RFP PACKAGE No. CC05-AA-SOH-RFP-107-8005. POWER ELECTRICAL FOR 230 kV TRANSMISSION LINES AND ELECTRICAL SUBSTATIONS ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION, COMMISSIONING, AND START-UP (EPCIC/S) SERVICES – RFP EPC 230kV
- EPA - ESTABLECIMIENTO PUBLICO AMBIENTAL DE BUENAVENTURA.
- ISA – ISA INTERCOLOMBIA HIGH VOLTAGE NATIONAL TRANSMISSION SYSTEM OPERATOR.
- CC-SKC – CARTON COLOMBIA SMURFIT KAPPA COLOMBIA
- CON – CONCEJO NACIONAL DE OPERACIÓN
- DIAN – TAX GOBERMENT ENTITY. DIRECCION DE IMPUESTOS Y ADUANAS NACIONALES.
- LNTP – LIMITED NOTICE TO PROCEED.
- CVC – CORPORACIÓN AUTÓNOMA REGIONAL DEL VALLE DEL CAUCA
- GRB – GRUPO EMPRESA DE ENERGIA DE BOGOTA. OWNER PROJECT TL 500kV ALFEREZ – SAN MARCOS.

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### **3. POINTS OF ATTENTION**

#### **3.1 XM AUDITS**

- Engineering deliverables for TL1 and SE San Marcos completed on Dec 2020 are included in the ftp site.
- TS1 and TS2. LPG fuel logistics infrastructure. Evidence of the progress with the Port LPG infrastructure should be demonstrated or an alternative option need to be considered in order to comply with the fuel audit requirement.

#### **3.2 EPC PORT CONTRACT ME**

- The ME EPICS Port Contract and the LNTP signatures are pending to be completed.

#### **3.3 TS2 – LT2 – SE2 – SE TABOR – BUENAVENTURA**

- RFP EPC 115kV proposal. JE Jaimes, Construir Ingenieria and Edemsa submitted proposals.
- The Wartsila EPC LNTP with the engineering scope of work is pending to be fully executed.

#### **3.4 TS1 FACILITIES**

- ME submitted the proposal but it has not been received by SUMED. It is pending to receive SeaOne instructions.
- RFP document to invite other bidders is under preparation. Proposals from bidders will take at least 2 – 3 months.

#### **3.5 TS1 – LT1 – SE1 – SE SAN MARCOS – YUMBO**

- The RFP EPC 230kV. Proposals from JE Jaimes and IA Ingenieros have been submitted. Edemsa has not confirmed proposal submission date.
- GEB 500kV crossing over TL1 230kV TS1 Project. The coordination between the two projects is ongoing.
- The UPME submitted response about the Interconnection Study. Considering these conditions, a regulatory and legal strategy should be implemented in order to demonstrate to XM that external conditions are not under control of SeaOne to comply with TS1 COD (Commercial Operation Date) (letters or communications to XM, UPME, CREG, Celsia, ISA and GEB).

### **4. CURRENT STATUS**

#### **4.1 EPC PORT CONTRACT MOTA-ENGIL**

- The adjusted proposal including wharf reduction 209x76 m2, tanks capacity increasing for TK1 and TK2 from 100KBBL to 110 KBBL, additional tanks for TKx=50KBBL biodiesel, TKy=50KBBL ethanol considering size of d 26.7m x h 14.25m and Flare relocation was received by SeaOne but not by SUMED.

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- It is SUMED understanding that ME present another proposal simplifying the pier just with access trestles, berthing and mooring dolphins, pipeline structural support. This will be phase 1A. The phase 1B will be the rest of the scope of works.
  - The LNTP works in a purchase order (including engineering and geotechnical works) could be issued on Jan, 2021 and the contract signature on Feb, 2021.

## **4.2 WARTSILA EPC POWER PLANT**

### **4.2.1 TS-2.**

- There are pending activities to be closed with Wartsila because of lack of response by ME:
  - Interface Management.
  - Updated layout, Dynamics load impact of the proposed engines and site handover document for the reception requirements of the power platform.
  - The causeway and power plant platform are separate structures. Considering the exercise required for the heavy transport of engines, confirm if it is possible to drive from the causeway directly to the platform at desired location.
  - Power plant platform information related to calculations and response spectra on platform level. On Dec 2020 ME confirmed this information will be provided during the detail engineering phase.
- Long lead items need to be identified and the estimated date for supplies at site is required from Wartsila for:
  - Engines manufactured on Oct 2021 if NTP issued on Jan 2021.
  - Power electrical transformer 13.8/115kV.
  - Generator 13.8kV.
  - Gas vaporizer.
  - GIS Power Electrical Substation: Disconnectors, switchgear, current transformer, potential transformer, surge arrester and similar for 115kV.
- Exhibit 9. Performance guidelines to Wartsila to be agreed between SeaOne and Contractor considering the compliance in the performance test of the Acuerdo 1330 Colombian regulation requirements. SUMED received it on Dec 10<sup>th</sup> and it is under review.
- LNTP works in a Purchase Order to be submitted to Wartsila considering preliminary works in engineering, geotechnical studies and project management documents.

### **4.2.2 TS-1.**

- Once the interface list for TS-2 has been closed, the same exercise should be completed for TS-1.
- Long lead items need to be identified and the estimated date for supplies at site is required from Wartsila for:
  - Engines manufactured on Oct 2021 if NTP issued on Jan 2021.
  - Power electrical transformer 13.8/230kV.
  - Generator 13.8kV.

- Gas vaporizer.
- GIS Power Electrical Substation: Disconnectors, switchgear, current transformer, potential transformer, surge arrester and similar for 230kV.
- Power electrical substation 13.8/230kV configuration needs to be analyzed considering: The current bid is considering a simple bar configuration. The simple + transfer bar, increases the reliability and availability of the power plant. The power electrical transformers 3 phase 13.8/230kV 140MVA and 120MVA (2 units with no backup) are considered in the bid. If there is a damage in one power transformer the commitments of power generation could not be complied. 6 units of an autotransformer 1 phase 13.8/230kV to complete 140MVA and 120MVA + 1 unit backup could be an option to speed up fabrication, transport to site, installation and increase reliability – availability.
- Geotechnical local quotations. No updated quotations up today have been received. Piling foundations will be required.

### **4.3 O&M POWER PLANT CONTRACT**

- It is pending to request more information about O&M strategy with SeaOne.

### **4.4 CQS - EASEMENT NEGOTIATION**

#### **4.4.1 TS-2.**

- TL2. Poles 1 to 7. No comments under control.
- TL2. Pole 6 to 7 permit over the El Piñal Bridge and Calle 6 to be obtained with INVIAS. It is pending to execute this activity.
- TL2. Pole 7 underground to SE Tabor. Easement permit for underground route to be obtained with INVIAS. It is pending to execute this activity.
- TL2 inside El Tabor Power Electrical Substation permit and easement is included in the interconnection agreement with CELSIA EPSA.

#### **4.4.2 TS-1.**

- Easement negotiations should start as soon as possible because it is a critical activity in the schedule to start construction phase.
- Easement negotiations scope of works needs to be awarded in a package.
- Under the negotiation process with land owners, it will be defined if the existing infrastructure with the alignment, will be relocated or the cost will be compensated in money to the land owner.

### **4.5 PERMITING**

- Permit action tracking document is ongoing and weekly populated in order to identify all permits for the project.
- It is pending to establish with Contractors and SeaOne the permits responsibility for each part.

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#### **4.6 GERS - TRANSMISSION LINE (TL) AND POWER ELECTRICAL SUBSTATIONS (SE)**

##### **4.6.1 SE2 + LT2 + SE TABOR.**

- Engineering designs have been completed by GERS.
- SE Tabor bay line detail design needs the major equipment definition in order to move forward to completion. Equipment definition is under EPC scope of works.
- It is pending to discuss with Celsia about the commitments included in the interconnection agreement.

##### **4.6.2 SE1 + LT1 + SE SAN MARCOS 230kV.**

- SE San Marcos. Basic engineering was almost completed on Dec 2020. Detail design needs the major equipment definition in order to move forward to completion. Equipment definition is under EPC scope of works. ISA feedback and comments about the submitted deliverables is required to adjust the engineering deliverables.
- Soil studies for TL1 and SE San Marcos. Second phase geotechnical drilling results report to be submitted by contractor on Jan 15<sup>th</sup>, 2021. This information is required to complete foundations engineering.
- Reference deliverables for RFP EPC 230kV considering TL1 and SE San Marcos are included in the SeaOne's ftp site.

#### **4.7 RFP EPC 115kV (SE2 + LT2 + SE TABOR)**

- ME will not submit proposal for the RFP EPC 115kV.
- JE Jaimes proposal submitted on Dec 1<sup>st</sup>, 2020, does not include the piling foundations.
- Edemsa proposal submitted on Jan 14<sup>th</sup>, 2021, does not include El Tabor bay line substation scope of works.
- Construir Ingenieria quoted the TL2 piling EPC package on Dec 4<sup>th</sup>, 2020.
- Proposals are under review and make clarifications to the received proposals.

#### **4.8 RFP EPC 230kV (SE1 + LT1 + SE SAN MARCOS)**

- ME confirmed they will not submit proposal for the RFP EPC 230kV.
- IA Ingenieros Asociados submitted proposal on Oct 15<sup>th</sup>, 2020.
- JE Jaimes submitted proposal on Dec 23<sup>rd</sup>, 2020.
- It is pending to confirm Edemsa proposal submission date.
- The scope of work related to the demolition activities of existing infrastructure interfering with the TL1 is not included yet in the RFP. This is because of it is required a baseline as a result of the field easements appraisal ongoing activities.
- It is pending SUMED to submit comments of the EPC draft contract.

#### **4.9 GEB 500kV TRANSMISSION LINE ALFEREZ – SAN MARCOS PROJECT**

- The GEB 500kV project crosses the TL1 in LTS-17 and LTS-18 sector.
- Pending points under SeaOne:
  - Review the PLSCADD file GEB 500kV with the alignment T87 – T88 and submit comments to GEB.

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- Once a technical validation is performed, to schedule a visit with GEB to site to confirm the towers location.
  - Pending points under GEB:
    - Review the PLSCADD file TL1 230kV with the alignment T16 – T19 and submit comments to SeaOne.
    - Prepare a CAPEX preliminary estimate about the cost impact of increasing the height of the T87 and T88 towers.
    - Prepare a draft agreement for GEB and SeaOne signatures to support the agreement.
    - Once a technical validation is performed, to schedule a visit with SeaOne to site to confirm the towers location.
    - To send a letter to Aeronautica Civil confirming the new height of T87 – T88 will not interfere with the flight approximation curves airport of the Alberto Bonilla Aragon Airport.

#### **4.10 TS1 FACILITIES AND SUPPORT INFRASTRUCTURE**

- TS1 support infrastructure refers to 50kBLS sphere for LPG, 12kBLS water tank, trucks unloading bays, workshops, offices and other support infrastructure.
- The ME proposal was received but SUMED has not received it.
- It is recommended to do a technical review of the ME technical proposal in order to identify missing gaps.
- The RFP to invite other bidders is ongoing.

#### **4.11 AQUA Y TERRA / AYT – ENVIRONMENTAL LICENSING**

##### **4.11.1 TS-2 Pole 7 to El Tabor Bay Line.**

- The EIA for the not licensed section of TL2 was submitted to EPA on Oct 19<sup>th</sup>.
- EPA payment for studies review was performed on Dec 31<sup>st</sup>, 2020.
- Field archaeological activities were completed on Dec, 2020.

##### **4.11.2 TS-1**

- The resolution signed by ANLA confirming the starting date for review of the environmental license has not been issued.
- Field archaeological activities were completed on Dec, 2020.

#### **4.12 TS1 - ISA INTERCONNECTION AGREEMENT**

- It is pending to receive answer from ISA about the SeaOne Nov 23<sup>rd</sup> request. The information stated in the Cláusula Octava – Actividades y Obligaciones a Desarrollar por Las Partes. Numeral 8.2 Item A) Durante la Etapa de construcción. Parts 7, 8 and 9.
- It is pending to receive an answer from ISA about the SeaOne Nov 26<sup>th</sup> request (Basic engineering deliverables comments and San Marcos power electrical substation position 9 confirmation).

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#### **4.13 TS2 – CELSIA INTERCONNECTION AGREEMENT**

- It is pending to review the commitments of this documents and proceed to comply with agreement requirements.

#### **4.14 ISA BOOM (BUILD, OWN, OPERATE AND MANTAIN) PROPOSAL**

- This applies to the Termo Solo 1 13.8kV/230kV power electrical substation, transmission line 230kV and the bay line for the SE San Marcos.
- SUMED recommends to continue with the other bidders to obtain an EPC proposal and have more options for SeaOne decisions. The O&M contract could be included in a different package.
- ISA submitted the proposal on Dec 2020, it is pending to schedule a meeting for clarifications and submit comments.

#### **4.15 GEB BOOM (BUILD, OWN, OPERATE AND MANTAIN) PROPOSAL**

- On Dec 10<sup>th</sup>, GEB confirmed their interest to present proposal for this. GEB mentioned they could present a proposal by Feb or Mar 2021.
- If this is acceptable for SeaOne, it is pending to submit the letter to invite GEB to the RFP process.

#### **4.16 DECEMBER, 2020 AUDITS REQUIREMENTS FOR TS-1 AND TS-2**

- Identify the milestones to be accomplished by the project for the next audit with XM.
- The interconnection agreement with ISA is completed.
- The basic engineering for TL1 and SE San Marcos was almost completed on Dec 2020.

#### **4.17 FREE TRADE ZONE CONTRACT**

- For the Puerto Solo Port, Termo Puerto Solo TS-2 and Termo Solo 1 TS-1 Free Trade Zone Contracts it is required to perform some architectural drawings for the Power Plants and the offices / DIAN buildings. It is a requirement to contract signature process.
- The Free Trade Zone Contract is required for the nationalization of all the imported equipment before the construction stage for the Puerto Solo Port, Termo Puerto Solo TS-2 and Termo Solo 1 TS-1.
- This activity is expected to be included in the LNTP works to be requested to ME.
- Technical engineering works for this package are currently stopped.

#### **4.18 BACKWARD PLANNING. TS-1 AND TS-2**

- If Wartsila requires back feed from grid for Power Plant commissioning activities, a backward planning is required to integrate the schedules of the port, power plant, TLx and SEx.
- The planning should include the time line execution of the applicable procedure in CNO for the COD – Comercial Operation Date declaration established in the Acuerdo 1214 and the EACP – Estudio y Ajuste Coordinacion Protecciones regulation.